

## 1996 Modeled Exposure Concentrations for Delaware

**EPA strongly cautions that these modeling results should not be used to draw conclusions about local concentrations or risk. The results are most meaningful when viewed at the state or national scale. In addition, these results represent conditions in 1996 rather than current conditions.**

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.

[For a discussion of limitations please see http://www.epa.gov/ttn/atw/nata/natsalim2.html](http://www.epa.gov/ttn/atw/nata/natsalim2.html)

- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Delaware												
State	County	FIPS	Urban or Rural	1,1,2,2-TCA	1,3-Butadiene	1,3-Dichloropropene	Acetaldehyde	Acrolein	Acrylonitrile	Arsenic	Benzene	Beryllium	Cadmium	Carbon Tetrachloride	Chloroform	Chromium
National	All	99999	-	2.33E-04	4.79E-02	5.20E-02	4.82E-01	7.21E-02	5.62E-04	4.83E-05	1.19E+00	8.35E-06	3.90E-05	6.41E-01	6.90E-02	5.15E-04
National	All Urban Counties	99998	U	3.50E-04	5.93E-02	6.60E-02	6.45E-01	8.89E-02	8.39E-04	6.25E-05	1.41E+00	1.08E-05	5.90E-05	6.41E-01	6.96E-02	8.25E-04
National	All Rural Counties	99998	R	3.62E-05	1.30E-02	7.09E-03	1.15E-01	3.03E-02	7.64E-05	1.01E-05	6.01E-01	1.09E-06	4.79E-06	6.40E-01	6.80E-02	5.05E-05
Delaware	State Total	10000	-	1.40E-04	6.98E-02	6.86E-02	7.33E-01	9.93E-02	5.21E-04	1.30E-04	1.40E+00	1.55E-05	1.48E-04	6.41E-01	7.16E-02	1.11E-03
Delaware	State Urban Counties	10000	U	1.95E-04	8.35E-02	8.52E-02	8.10E-01	1.09E-01	5.22E-04	1.45E-04	1.57E+00	1.84E-05	1.59E-04	6.40E-01	7.25E-02	1.36E-03
Delaware	State Rural Counties	10000	R	5.53E-05	1.55E-02	1.16E-02	1.71E-01	2.31E-02	5.03E-04	1.46E-05	6.16E-01	2.00E-06	6.11E-06	6.41E-01	6.81E-02	6.62E-05
Delaware	Kent County	10001	R	6.19E-05	2.62E-02	1.74E-02	2.25E-01	3.38E-02	1.65E-03	1.46E-05	6.48E-01	4.66E-06	1.01E-05	6.41E-01	6.82E-02	4.20E-05
Delaware	New Castle County	10003	U	1.95E-04	8.35E-02	8.52E-02	8.10E-01	1.09E-01	5.22E-04	1.45E-04	1.57E+00	1.84E-05	1.59E-04	6.40E-01	7.25E-02	1.36E-03
Delaware	Sussex County	10005	R	4.20E-05	1.05E-02	9.85E-03	1.41E-01	1.88E-02	1.04E-04	1.45E-05	5.83E-01	1.63E-06	5.22E-06	6.41E-01	6.80E-02	8.20E-05

## 1996 Modeled Exposure Concentrations for Delaware

**EPA strongly cautions that these modeling results should not be used to draw conclusions about local concentrations or risk. The results are most meaningful when viewed at the state or national scale. In addition, these results represent conditions in 1996 rather than current conditions.**

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.

[For a discussion of limitations please see http://www.epa.gov/ttn/atw/nata/natsalim2.html](http://www.epa.gov/ttn/atw/nata/natsalim2.html)

- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Delaware												
State	County	FIPS	Urban or Rural	Coke Oven Emissions	Diesel PM	Ethylene Dibromide	Ethylene Dichloride	Ethylene Oxide	Formaldehyde	Hexachlorobenzene	Hydrazine	Lead	Manganese	Mercury	Methylene Chloride	Nickel
National	All	99999	-	0.00E+00	1.07E+00	6.08E-03	5.27E-02	1.25E-03	6.77E-01	7.51E-05	3.71E-08	1.54E-03	1.06E-03	1.33E-03	2.72E-01	7.43E-04
National	All Urban Counties	99998	U	0.00E+00	1.30E+00	6.08E-03	5.28E-02	1.80E-03	8.22E-01	7.51E-05	6.61E-08	2.50E-03	1.32E-03	1.40E-03	3.22E-01	1.10E-03
National	All Rural Counties	99998	R	0.00E+00	4.63E-01	6.08E-03	5.26E-02	1.05E-04	3.45E-01	7.51E-05	9.29E-10	1.45E-04	2.38E-04	1.21E-03	1.40E-01	8.37E-05
Delaware	State Total	10000	-	0.00E+00	1.98E+00	6.08E-03	5.32E-02	4.05E-03	9.12E-01	7.51E-05	2.91E-07	2.45E-03	8.62E-04	1.70E-03	3.10E-01	2.95E-03
Delaware	State Urban Counties	10000	U	0.00E+00	2.17E+00	6.08E-03	5.40E-02	5.40E-03	9.81E-01	7.51E-05	4.23E-07	3.07E-03	9.33E-04	1.74E-03	3.58E-01	3.68E-03
Delaware	State Rural Counties	10000	R	0.00E+00	1.17E+00	6.08E-03	5.24E-02	1.84E-04	3.53E-01	7.51E-05	4.02E-08	1.24E-04	1.34E-04	1.23E-03	1.40E-01	9.85E-05
Delaware	Kent County	10001	R	0.00E+00	1.32E+00	6.08E-03	5.24E-02	3.60E-04	3.84E-01	7.52E-05	4.16E-08	1.11E-04	1.90E-04	1.23E-03	1.47E-01	2.20E-04
Delaware	New Castle County	10003	U	0.00E+00	2.17E+00	6.08E-03	5.40E-02	5.40E-03	9.81E-01	7.51E-05	4.23E-07	3.07E-03	9.33E-04	1.74E-03	3.58E-01	3.68E-03
Delaware	Sussex County	10005	R	0.00E+00	9.08E-01	6.08E-03	5.22E-02	1.29E-04	3.11E-01	7.50E-05	2.12E-08	1.70E-04	1.27E-04	1.22E-03	1.37E-01	9.13E-05

## 1996 Modeled Exposure Concentrations for Delaware

EPA strongly cautions that these modeling results should not be used to draw conclusions about local concentrations or risk. The results are most meaningful when viewed at the state or national scale. In addition, these results represent conditions in 1996 rather than current conditions.

- The exposure estimates presented below are representative of midrange estimates of population exposures. Due to a number of factors, some individuals may have substantially higher or lower exposures. It is important to note that the model, as applied on the national scale, is not designed to quantify these extreme values of individual exposures.
- Note that for certain chemicals, exposure pathways other than inhalation as well as indoor sources of air toxics may contribute substantially to total exposures of concern. This assessment does not address these other routes of exposure (i.e., ingestion or dermal) or inhalation exposure resulting from indoor sources.
- The emissions used in this assessment do not reflect potentially significant emission reductions that have taken effect since 1996, including those from: 1) mobile source regulations which are being phased in over time; 2) many of the air toxics regulations EPA has issued for major industrial sources; 3) State or industry initiatives; and 4) any facility closures.
- Methods of estimating emissions as well as simplified modeling assumptions may introduce significant uncertainties into each component of the assessment.  
For a discussion of limitations please see <http://www.epa.gov/ttn/atw/nata/natsalim2.html>
- Because of these uncertainties, EPA will not use the results of this assessment to determine source-specific contributions or to set regulatory requirements. However, EPA expects to use these results to inform decisions about the priorities of the air toxics program as well as to guide the collection of additional data that could lead to regulatory decisions.

				Estimated Annual Median Exposure Concentrations (ug/m3) for Delaware											
State	County	FIPS	Urban or Rural	PCBS	Perchloroethylene	POM (total)	Propylene Dichloride	Quinoline	Trichloroethylene	Vinyl Chloride					
National	All	99999	-	3.00E-04	1.84E-01	4.27E-02	3.11E-05	1.85E-07	9.86E-02	7.61E-04					
National	All Urban Counties	99998	U	3.00E-04	2.13E-01	5.26E-02	4.73E-05	3.22E-07	1.12E-01	1.16E-03					
National	All Rural Counties	99998	R	3.00E-04	1.14E-01	9.18E-03	4.85E-06	1.07E-08	7.06E-02	1.05E-04					
Delaware	State Total	10000	-	3.00E-04	2.41E-01	3.61E-02	2.32E-05	5.40E-07	9.94E-02	1.66E-02					
Delaware	State Urban Counties	10000	U	3.01E-04	2.79E-01	4.25E-02	3.25E-05	7.56E-07	1.15E-01	1.84E-02					
Delaware	State Rural Counties	10000	R	3.00E-04	1.18E-01	8.98E-03	9.30E-06	1.73E-07	7.12E-02	1.50E-04					
Delaware	Kent County	10001	R	3.00E-04	1.28E-01	1.14E-02	1.04E-05	1.73E-07	7.45E-02	2.94E-03					
Delaware	New Castle County	10003	U	3.01E-04	2.79E-01	4.25E-02	3.25E-05	7.56E-07	1.15E-01	1.84E-02					
Delaware	Sussex County	10005	R	3.00E-04	1.13E-01	8.66E-03	8.56E-06	1.94E-07	6.99E-02	1.17E-04					